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In the claims:

1. (canceled)

- (currently amended): The semi-custom array for chemical screening of claim 35
 wherein the strips <u>filaments</u> have a length taken along the longitudinal axis of at least ten
 one thousand times the maximum cross-sectional dimension of the strips <u>filaments</u> taken
 across the longitudinal axis.
- 3 4. (canceled)
- (currently amended): The semi-custom array for chemical screening of claim 35 wherein the non-reactive strips filaments are glass fibers.
- (currently amended): The semi-custom array for chemical screening of claim 35
 wherein the support frame holds the strips <u>filaments</u> transversely spaced in parallel
 relationship.
- (currently amended): The semi-custom array for chemical screening of claim 35
 wherein the support frame holds the strips <u>filaments</u> transversely spaced along two
 perpendicular axes.
- 8. (canceled)
- (currently amended): The semi-custom array for chemical screening of claim 35
 wherein the strips <u>filaments</u> include recessed portions receiving the chemically reactive
 substances.
- 10. (currently amended): The semi-custom array for chemical screening of claim 35 wherein the strips <u>filaments</u> include a marker allowing the strips <u>filaments</u> to be distinguished.
- 11. (previously presented): The semi-custom array for chemical screening of claim 10 wherein the marker is selected from the group of printing and fluorescent material.

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- 12. (currently amended): The semi-custom array for chemical screening of claim 35 wherein the strips filaments include a marker allowing a given end of the strip to be identified.
- 13. (previously presented): The semi-custom array for chemical screening of claim 35 wherein the marker is selected from the group of printing and fluorescent material.
- 14. (withdrawn): A chemical screening apparatus comprising a strip of a non-reactive substrate extending along a longitudinal axis and supporting, spaced along that longitudinal axis, a linear array of different, oligonucleotides exposed on a surface of the strip.
- 15. (withdrawn): The chemical screening apparatus of claim 14 wherein the strip has a length taken along the longitudinal axis of at least ten times the maximum cross-sectional dimension of the strip taken across the longitudinal axis.
- (withdrawn): The chemical screening apparatus of claim 14 wherein the non-reactive strip is a glass fiber.
- 17. (withdrawn): The chemical screening apparatus of claim 14 wherein the strips include isolating bands of a chemically repellant coating between the chemically reactive substances.
- 18. (withdrawn): The chemical screening apparatus of claim 14 wherein the strips include recessed portions receiving the chemically reactive substances.
- (withdrawn): The chemical screening apparatus of claim 14 wherein the strips include a marker allowing the strips to be distinguished.
- 20. (withdrawn): The chemical screening apparatus of claim 14 wherein the marker is selected from the group of printing and fluorescent material.
- 21. (withdrawn): The chemical screening apparatus of claim 14 wherein the strips include a marker allowing a given end of the strip to be identified.

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- 22. (withdrawn): The chemical screening apparatus of claim 1 wherein the marker is selected from the group of printing and fluorescent material.
- 23. (withdrawn): A method of manufacture of strips of a non-reactive substrate extending along a longitudinal axis and supporting, spaced along that longitudinal axis, a linear array of different, chemically reactive substances exposed on a surface of the strip comprising the steps of:
- (a) affixing the strips in a frame to be transversely spaced in parallel relationship in a plane to expose at a plane, surface locations for the chemically reactive substances;
 - (b) immersing the frame in a sequence of component solutions;
- (c) light activating the bonding of a substance of the component solution with the strips at a subset of the locations for each component solution; and
 - (d) releasing the strips from the frame.
- 24. (withdrawn): A method of manufacture of strips of a non-reactive substrate extending along a longitudinal axis and supporting, spaced along that longitudinal axis, a linear array of different, chemically reactive substances exposed on a surface of the strip comprising the steps of;
- (a) positioning the strip to have different longitudinal portions positioned in adjacent volumes holding different component solutions;
- (b) light activating the bonding of a substance of at least one of the component solutions with the strip at a location for at least one of the chemically reactive substances;
- (c) repositioning the strip within the volumes of different component solutions; and
- (d) repeating steps (b) and (c) to create chemically reactive substances at the locations.
- 25. (withdrawn): The method of claim 24 wherein multiple strips are simultaneously positioned within the adjacent volumes to have light activated bonding of the component solution.

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- 26. (withdrawn): The method of claim 24 wherein the volumes are separated by a multiple of the separation of the locations of the chemically reactive substances.
- 27. (withdrawn): The method of claim 26 wherein the strip is formed in a continuous loop to circulate through the volumes.
- 28. (withdrawn): A method of manufacture of strips of a non-reactive substrate extending along a longitudinal axis and supporting, spaced along that longitudinal axis, a linear array of different, chemically reactive substances exposed on a surface of the strip comprising the steps of:
- (a) positioning a plurality of strips to pass through a volume bracketing a segment of the strips;
- (b) fill the volume with component solution bonding onto the segments a portion of the chemically reactive substances;
 - (c) flush the volume of component solution;
- (d) repositioning at least some of the strip within the volumes so that different segments are subtended; and
- (e) repeating steps (b) and (c) with different chemical solutions to create the chemically reactive substances at the locations.
- 29. (withdrawn): The method of claim 28 wherein the strips are independently repositioned so that each strip may have different chemically reactive substances with respect to the others.
- 30. (withdrawn): A method of manufacture of strips of a non-reactive substrate extending along a longitudinal axis and supporting, spaced along that longitudinal axis, a linear array of different, chemically reactive substances exposed on a surface of the strip comprising the steps of:
- (a) affixing the strips in a frame to be transversely spaced in parallel relationship in a plane to expose at a plane, surface locations for the chemically reactive substances;
 - (b) placing a mask material over the plane exposing a selected subset of locations;
 - (c) immersing the frame in a sequence of component solutions;

- (d) repeating steps (b) and (c) for a plurality of masks and component solutions to create the different chemically reactive substances; and
 - (e) releasing the strips from the frame.
- 31. (withdrawn): A method of manufacture of beads of a non-reactive substrate supporting different, chemically reactive substances exposed on a surface of the strip comprising the steps of:
- (a) preparing strips of a non-reactive substrate extending along a longitudinal axis and supporting, spaced at locations along that longitudinal axis, a linear array of different, chemically reactive substances exposed on a surface of the strip by repeated exposure of the locations to different chemical materials in a predefined sequence; and
 - (b) cutting the strip between the locations to produce the beads.
- 32. (withdrawn): A method of screening chemical materials comprising the steps of:
- (a) preparing at least two different strips of a non-reactive energy conductive substrates extending along a longitudinal axis and supporting, spaced along that longitudinal axis, a linear array of different, chemically reactive substances exposed on a surface of the strip;
 - (b) arranging the strips to cross at a read-out site;
- (c) applying energy to at least one of the strips to promote an energetic interaction with a chemically reactive substance at the read-out site; and
- (d) detecting energy at least one of the strip to detect the energetic interaction at the read out site.
- 33. (withdrawn): A method of promoting localized chemical reactions comprising the steps of:
- (a) preparing least two different strips of a non-reactive energy conductive substrates extending along a longitudinal axis and supporting, spaced along that longitudinal axis, a linear array of different, chemically reactive substances exposed on a surface of the strip;
 - (b) arranging the strips to cross at a promotion site;

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- (c) applying energy to at least one of the strips to promote an energetic interaction with a chemically reactive substance at the promotion site causing the localized chemical reaction.
- 34. (canceled)
- 35. (currently amended): A semi-custom array for chemical screening comprising:
- (a) at least two different strips filaments of a non-reactive substrate, each filament providing substantially a single dimension of spaced locations extending along a longitudinal axis and supporting, spaced along that longitudinal axis, for each filament, a linear array of different, chemically reactive substances exposed on a an outwardly facing surface of the strips filaments at the spaced locations, wherein the linear array of a first one of the at least two filaments is different from the linear array of a second one of the at least two filaments.
- (b) a support frame for receiving and holding the strips filaments for mutual exposure to a material to be screened wherein each of the strips filaments includes isolating bands of a chemically repellant coating between the chemically reactive substances.
- 36 40. (canceled)
- 41. (currently amended): A chemical screening kit comprising:
- (a) a library of strips filaments having at least two filaments of a non-reactive substrate, each strip providing substantially a single dimension of spaced locations extending along a longitudinal axis, each strip supporting, spaced along that longitudinal axis, different and forming a linear array array of chemically reactive substances exposed on a an outside surface of the strip, wherein the linear array of a first one of the at least two filaments is different from the linear array of a second one of the at least two filaments; and
- (b) a support frame for receiving and holding different combinations of a subset of the library of strips <u>filaments</u> for mutual exposure to a material to be screened; whereby a semi-custom array of reactive substances may be created.

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42. (canceled)

- 43. (currently amended): The chemical screening kit of claim 41 wherein the strips filaments have a length taken along the longitudinal axis of at least ten one thousand times the maximum cross-sectional dimension of the strip taken across the longitudinal axis
- 44. (currently amended): The chemical screening kit of claim 41 wherein the non-reactive strips filaments are glass fibers.
- 45. (currently amended): The chemical screening kit of claim 41 wherein the support frame holds the strips filaments transversely spaced in parallel relationship.
- 46. (currently amended): The chemical screening kit of claim 41 wherein the support frame holds the strips filaments transversely spaced along two perpendicular axes.
- 47. (currently amended): The chemical screening kit of claim 41 wherein the strips filaments include isolating bands of a chemically repellant coating between the chemically reactive substances.
- 48. (currently amended): The chemical screening kit of claim 41 wherein the strips <u>filaments</u> include recessed portions receiving the chemically reactive substances.
- 49. (currently amended): The chemical screening kit of claim 41 wherein the strips filaments include a marker allowing the strips filaments to be distinguished.
- 50. (previously presented): The chemical screening kit of claim 41 wherein the marker is selected from the group of printing and fluorescent material.
- 51. (currently amended): The chemical screening kit of claim 41 wherein the strips filaments include a marker allowing a given end of the strip to be identified.
- 52. (previously presented): The chemical screening kit of claim 41 wherein the marker is selected from the group of printing and fluorescent material.